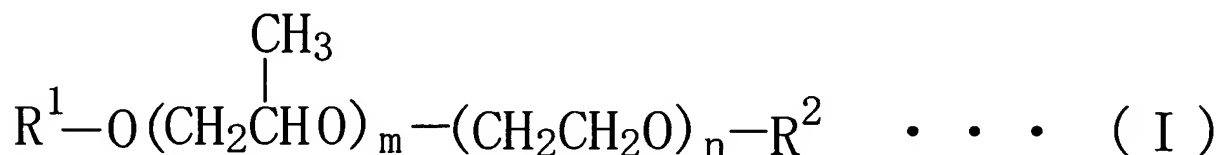
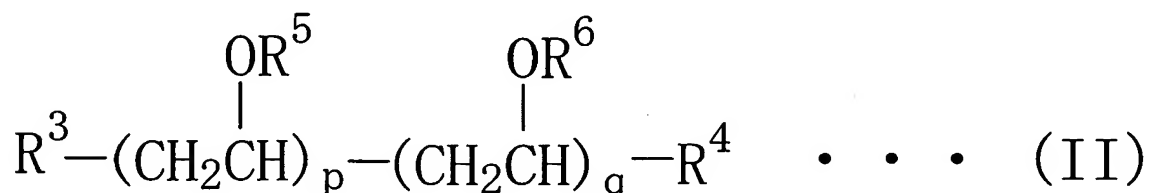


What is claimed is:

1. A refrigerating oil composition comprising  
a refrigerant (A) containing as a predominant component  
a C1-C8 hydrocarbon compound and  
a base oil (B) composed of a polyalkylene glycol ether  
represented by formula (I):



wherein each of  $\text{R}^1$  and  $\text{R}^2$  represents a hydrogen atom, a C1-C18 hydrocarbon group, or a C2-C18 acyl group, provided that  $\text{R}^1$  and  $\text{R}^2$  are not simultaneously hydrogen atoms; each of  $m$  and  $n$  is an integer of 1 or more; and  $n/(m + n)$  is more than 0.4, and/or a polyvinyl ether represented by formula (II):



wherein each of  $\text{R}^3$  and  $\text{R}^4$  represents a hydrogen atom, a C1-C18 hydrocarbon group, or a C2-C18 acyl group;  $\text{R}^5$  represents a C1-C4 hydrocarbon group;  $\text{R}^6$  represents a C2-C4 hydrocarbon group, provided that the number of carbon atoms contained in  $\text{R}^6$  is greater than that of carbon atoms contained in  $\text{R}^5$ ;  $p$  is an integer of 1 or more; and  $q$  is an integer of 0 or more,

and satisfying the following conditions:

- (i) solubility of the refrigerant (A) in the base oil (B) is 40 mass% or less at 40°C and 1.2 MPa and

(ii) mixture viscosity of the refrigerating oil composition is  $0.1 \text{ mm}^2/\text{s}$  or more at  $90^\circ\text{C}$  and  $2.3 \text{ MPa}$ .

2. A refrigerating oil composition as described in claim 1, wherein  $p/(p + q)$  in formula (II) is 0.1 or more.

3. A refrigerating oil composition as described in claim 2, wherein  $R^5$  in formula (II) is a methyl group.

4. A refrigerating oil composition as described in any one of claims 1 to 3, wherein the solubility of the refrigerant (A) in the base oil (B) is 2 to 40 mass% at  $40^\circ\text{C}$  and  $1.2 \text{ MPa}$ .

5. A refrigerating oil composition as described in claim 4, wherein the solubility of the refrigerant (A) in the base oil (B) is 2 to 30 mass% at  $40^\circ\text{C}$  and  $1.2 \text{ MPa}$ .

6. A refrigerating oil composition as described in claim 5, wherein the solubility of the refrigerant (A) in the base oil (B) is 5 to 25 mass% at  $40^\circ\text{C}$  and  $1.2 \text{ MPa}$ .

7. A refrigerating oil composition as described in any one of claims 1 to 6, which exhibits a mixture viscosity of  $0.5 \text{ mm}^2/\text{s}$  or more at  $90^\circ\text{C}$  and  $2.3 \text{ MPa}$ .

8. A refrigerating oil composition as described in any one of claims 1 to 7, wherein the base oil (B) has a weight average molecular weight (Mw) of 500 or more.

9. A refrigerating oil composition as described in any one of claims 1 to 8, wherein the base oil (B) has an oxygen atom content of 10 mass% or more.